

# BIOHYDROGELS WORKSHOP

*From polymer network to regenerative medicine*

March 5-6, 2015 – Nantes (France)

School of Dental Surgery - Amphiteatre Ricordeau - 1 Place A. Ricordeau

**Thursday, March 5<sup>th</sup>**

**1.30 pm - Introduction**

Rolando Barbucci & Pierre Weiss

**2.00 pm - Session 1: Hydrogels chemistry**

Chair: Taco Nicolai

**Andrew Dove (University of Warwick, UK)**

Bioorthogonal click chemistry for the synthesis of degradable hydrogel materials

**Erik Geissler (University J. Fourier, France)**

Title to be announced

*3.30 pm – Coffee break*

**4.00 pm - Session 2: Hydrogels interaction with cells**

Chair: Thibaud Coradin

**Rachel Auzely (CERMAV-CNRS, France)**

Hyaluronic acid-based hydrogels : from chemistry to biological applications

**James Dixon (University of Nottingham, UK)**

Combined hydrogels that switch human pluripotent stem cells from self-renewal to differentiation

*7.30 pm - Dinner*

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**Friday, March 6<sup>th</sup>**

**8.30 am - Session 3: Hydrogels physico-chemistry**

Chair: David Eglin

**Alberto Saiani (University of Manchester, UK)**

Peptide based hydrogels for biomedical applications

**Pietro Matricardi (University of Rome, Italy)**

Polysaccharide nanohydrogels as drug carriers

*10.00 am - Coffee break*

**10.30 am - Session 4: Hydrogels translation towards regenerative medicine**

Chair: Catherine Le Visage

**João F. Mano (University of Minho, Portugal)**

Design of hydrogels made from natural-origin macromolecules for tissue engineering applications

**Marcy Zenoby-Wong (ETH Zürich, Switzerland)**

Tuning hydrogel stiffness to maximize neurite outgrowth

*12.00 am - End of workshop*

**2.00 pm – 4.00 pm**

Discussion on a future Biohydrogels European Society